



IFWO

## RAW SEQUENCE LISTING

DATE: 08/26/2004

PATENT APPLICATION: US/10/714,079B

TIME: 14:07:03

Input Set : N:\Cr4\08232004\J714079C.raw

Output Set: N:\CRF4\08262004\J714079B.raw

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1 <110> APPLICANT: PIROFSKI, LIISE-ANNE
2     ZHONG, ZHAOJING
3     CHANG, QING
4 <120> TITLE OF INVENTION: HUMAN ANTIPNEUMOCOCCAL ANTIBODIES FROM NON-HUMAN
5     ANIMALS
6 <130> FILE REFERENCE: ABX-AE1 CON
7 <140> CURRENT APPLICATION NUMBER: US/10/714,079B
8 <141> CURRENT FILING DATE: 2003-11-14
9 <150> PRIOR APPLICATION NUMBER: PCT/US02/18363
10 <151> PRIOR FILING DATE: 2002-05-16
11 <150> PRIOR APPLICATION NUMBER: 60/291,492
12 <151> PRIOR FILING DATE: 2001-05-16
13 <160> NUMBER OF SEQ ID NOS: 21
14 <170> SOFTWARE: PatentIn Ver. 2.1
16 <210> SEQ ID NO: 1
17 <211> LENGTH: 462
18 <212> TYPE: DNA
19 <213> ORGANISM: Homo sapiens
20 <400> SEQUENCE: 1
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22     cagctgttgg agtctggggg aggcttggtta cagcctgggg ggtccctgag actctcctgt 120
23     gcagcctctg gattcacctt tagcagctat gccatgagct ggggtccgcca ggctccaggg 180
24     aaggggcttg agtgggtctc agctattagt ggtagtgggt gtagcacata ctacgcagac 240
25     tccgtgaagg gccggttcac catctccaga gacaattcca agaacacgct gtatctgcaa 300
26     atgaacagcc tgagagccga ggacacggcc gtatattact gtgcgaaagc ccctcctaac 360
27     tggggatcgt ttgactactg gggccaggga accctgggtc ccgtctcttc agggagtgca 420
28     tccgccccaa cccttttccc cctcgtctcc tgtgagaatt cc 462
30 <210> SEQ ID NO: 2
31 <211> LENGTH: 648
32 <212> TYPE: DNA
33 <213> ORGANISM: Homo sapiens
34 <400> SEQUENCE: 2
35     gatattgagc tcacgcagtc tccactctcc ctgcccgtca cccttgagaca gccggcctcc 60
36     atctcctgca ggtctagtca aagcctcgta tacagtgatg gaaacaccta cttgaattgg 120
37     tttcagcaga gccaggcca atctccaagg cgcctaattt ataaggtttc taactgggac 180
38     tctgggggtc cagacagatt cagcggcagt gggtcaggca ctgatttcac actgaaaatc 240
39     agcaggggtg aggtgagga tgttgggggt tattactgca tgcaaggtag acactggcct 300
40     cggacgttcg gccaaaggac caaggtggaa atcaaacgaa ctgtgggtgc accatctgtc 360
41     ttcactcttc gcccatctga tgagcagttg aaatctggaa ctgcctctgt tgtgtgcctg 420
42     ctgaataact tctatcccag agaggccaaa gtacagtgga aggtggataa cgccctccaa 480
43     tcgggtaact cccaggagag tgtcacagag caggacagca aggacagcac ctacagcctc 540
44     agcagcacc tgacgctgag caaagcagac tacgagaaac acaaagtcta cgctgcgaa 600
45     gtcacccatc agggcctgag ctgcccgtc acaaagagct tcaacagg 648

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47 <210> SEQ ID NO: 3
48 <211> LENGTH: 474
49 <212> TYPE: DNA
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51 <400> SEQUENCE: 3
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53     caactggtgg agtctggggg aggcgtgggc cagcctggga ggtccctgag actctcctgt 120
54     gcagcgtctg gattcacctt cagtagctat ggcattgact ggtccgcca ggctccaggc 180
55     aaggggctgg agtgggtggc agttatatgg tatgatggaa gtaataaata ctatgcagac 240
56     tccgtgaagg gccgattcac catctccaga gacaattcca agaacacgct gtatctgcaa 300
57     atgaacagcc tgagagccga ggacacggct gtgtattact gtgcgagaga tcgggagtg 360
58     ctgaggtact actactacgg tatggacgtc tggggccaag ggaccacggt caccgtctcc 420
59     tcaggagtg catccgcccc aacccttttc ccctcgtct cctgtgagaa ttcc 474
61 <210> SEQ ID NO: 4
62 <211> LENGTH: 632
63 <212> TYPE: DNA
64 <213> ORGANISM: Homo sapiens
65 <400> SEQUENCE: 4
66     gacattgagc tacgcagtct ccatcttccg tgtctgcac tgtaggagac agagtcacca 60
67     tcacttgctg gccgagtcag ggtattagca gctggttagc ctggtatcag cagaaaccag 120
68     ggaaagcccc taagctcctg atctatgttg catcccgttt gcaaagtggg gtcccatcaa 180
69     gggtcagcgg cagtggatct gggacagatt tcactctcac catcagcagc ctgcagcctg 240
70     aagattttgc aacttactat tgtcaacagg ctaacagttt ccctcggacg ttcggccaag 300
71     ggaccaaggt ggaaatcaaa cgaactgtgg ctgcaccatc tgtcttcac ttcccgccat 360
72     ctgatgagca gttgaaatct ggaactgcct ctggtgtgtg cctgctgaat aacttctatc 420
73     ccagagaggc caaagtacag tggaaagggtg ataacgccct ccaatcgggt aactcccagg 480
74     agagtgtcac agagcaggac agcaaggaca gcacctacag cctcagcagc accctgacgc 540
75     tgagcaaagc agactacgag aaacacaaag tctacgcctg cgaagtcacc catcagggcc 600
76     tgagctcgcc cgtcacaaag agcttcaaca gg 632
78 <210> SEQ ID NO: 5
79 <211> LENGTH: 468
80 <212> TYPE: DNA
81 <213> ORGANISM: Homo sapiens
82 <400> SEQUENCE: 5
83     gaatttgggc tgagctggat ttcccttgcg gctattttta aaggtgtcca gtgtgaggtg 60
84     cagctggtgg agtctggggg aggccttggt aagcctgggg ggtcccttag actctcctgt 120
85     gcagcctctg gattcacttt cagtaacgcc tggatgagct ggtccgcca ggctccaggg 180
86     aaggggctgg agtgggttgg ccgtattaaa agcaaaactg atgggtgggac aacagactac 240
87     gctgcaccgc tgaaaggcag attcaccatc tcaagagatg attcaaaaaa cacgctgtat 300
88     ctgcaaatga acagcctgaa aaccgaggac acagccgtgt attactgtac cacaagctgg 360
89     aactacaggt actactttga ctactggggc cagggaaacc tggtcaccgt ctccctcaggg 420
90     agtgcacccg ccccaaccct ttccccctc gtctcctgtg agaattcc 468
92 <210> SEQ ID NO: 6
93 <211> LENGTH: 633
94 <212> TYPE: DNA
95 <213> ORGANISM: Homo sapiens
96 <400> SEQUENCE: 6
97     gacattgagc tcacgcagtc tccagacttt cagtctgtga ctccaaagga gaaagtcacc 60
98     atcacctgcc gggccagtc gagcattggg agtagcttac actggtacca gcagaaacca 120

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99      gatcagtcctc caaagctcct catcaagtat gcttcccagt ccttctcagg ggtcccctcg 180
100      aggttcagtg gcagtggtac tgggacagat ttcacctca ccatcaatag cctggaagct 240
101      gaagatgctg caacgtatta ctgtcatcag agtagtagtt tacctcggac gttcggccaa 300
102      gggaccaagg tggaaatcaa acgaactgtg gctgcacat ctgtcttcat cttcccgcca 360
103      tctgatgagc agttgaaatc tggaaactgcc tctgttgtgt gcctgctgaa taacttctat 420
104      cccagagagg ccaaagtaca gtggaagggtg gataacgccc tccaatcggg taactccag 480
105      gagagtgtca cagagcagga cagcaaggac agcacctaca gcctcagcag caccctgacg 540
106      ctgagcaaag cagactacga gaaacacaaa gtctacgcct gcgaagtcac ccatcagggc 600
107      ctgagctcgc ccgtcacaaa gagcttcaac agg 633
109 <210> SEQ ID NO: 7
110 <211> LENGTH: 471
111 <212> TYPE: DNA
112 <213> ORGANISM: Homo sapiens
113 <400> SEQUENCE: 7
114      gagtttgggc tgagctggat tttccttgct gctattttta aaggtgtcca gtgtgaggtg 60
115      cagctggttg agtctggggg aggcttggtt aagcctgggg ggtcccttag actctcctgt 120
116      gcagcctctg gattcacttt cagtaacgcc tggatgagct gggcgcgcca ggctccaggg 180
117      aaggggctgg agtgggttgg ccgtattaaa agcaaaactg atgggtgggac aacagactac 240
118      gctgcacccg tgaaaggcag attcaccatc tcaagagatg attcaaaaaa cacgctgtat 300
119      ctgcaaatga acagcctgaa aaccgaggac acagccgtgt attactgtac gaaacatagt 360
120      gggagctact acggatactt ccagcactgg ggccagggca ccctggtcac cgtctcctca 420
121      gggagtgcac ccgccccaac ccttttcccc ctgcgtctct gtgagaattc c 471
123 <210> SEQ ID NO: 8
124 <211> LENGTH: 649
125 <212> TYPE: DNA
126 <213> ORGANISM: Homo sapiens
127 <220> FEATURE:
128 <221> NAME/KEY: modified_base
129 <222> LOCATION: (462)
130 <223> OTHER INFORMATION: a, t, c, g, other or unknown
131 <220> FEATURE:
132 <221> NAME/KEY: modified_base
133 <222> LOCATION: (495)
134 <223> OTHER INFORMATION: a, t, c, g, other or unknown
135 <220> FEATURE:
136 <221> NAME/KEY: modified_base
137 <222> LOCATION: (513)
138 <223> OTHER INFORMATION: a, t, c, g, other or unknown
139 <400> SEQUENCE: 8
140      gatattgagc tcaactcagtc tccactctcc ctgcccgta cccctggaga gccggcctcc 60
141      atctcctgca ggtctagtca gagcctcctg catagtaatg gatacaacta tttggattgg 120
142      tacctgcaga agccagggca gtctccacag ctctgatct atttggttc taatcgggcc 180
143      tccgggggtcc ctgacagggt cagtggcagt ggatcaggca cagattttac actgaaaatc 240
144      agcagagtgg aggctgagga tgttgggggt tattactgca tgcaagctct acaaaactct 300
145      cggacgttcg gccaaaggac caaggtggaa atcaaacgaa ctgtggctgc accatctgtc 360
146      ttcactcttc ccgatctga tgagcagttg aaatctggaa ctgcctctgt tgtgtgctg 420
W--> 147      ctgaataact tctatcccag agaggccaaa gtacagtgga angtggataa cgccctccaa 480
W--> 148      tcgggtaact cccangagag tgtcacagag cangacagca aagacagcac ctacagcctc 540
149      agcagcacc tgacgtgag caaagcagac tacgagaaac acaaagtcta cgctgcgaa 600

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Input Set : N:\Crf4\08232004\J714079C.raw

Output Set: N:\CRF4\08262004\J714079B.raw

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150      gtcacccatc aaggcctgag ctcgcccgtc acaaagagct tcaacagga      649
152 <210> SEQ ID NO: 9
153 <211> LENGTH: 11
154 <212> TYPE: PRT
155 <213> ORGANISM: Homo sapiens
156 <400> SEQUENCE: 9
157      Lys Ala Pro Pro Asn Trp Gly Ser Phe Asp Tyr
158          1              5              10
160 <210> SEQ ID NO: 10
161 <211> LENGTH: 12
162 <212> TYPE: PRT
163 <213> ORGANISM: Homo sapiens
164 <400> SEQUENCE: 10
165      Lys His Ser Gly Ser Tyr Tyr Gly Tyr Phe Gln His
166          1              5              10
168 <210> SEQ ID NO: 11
169 <211> LENGTH: 11
170 <212> TYPE: PRT
171 <213> ORGANISM: Homo sapiens
172 <400> SEQUENCE: 11
173      Thr Ser Trp Asn Tyr Arg Tyr Tyr Phe Asp Tyr
174          1              5              10
176 <210> SEQ ID NO: 12
177 <211> LENGTH: 15
178 <212> TYPE: PRT
179 <213> ORGANISM: Homo sapiens
180 <400> SEQUENCE: 12
181      Arg Asp Arg Glu Trp Leu Arg Tyr Tyr Tyr Tyr Gly Met Asp Val
182          1              5              10              15
184 <210> SEQ ID NO: 13
185 <211> LENGTH: 9
186 <212> TYPE: PRT
187 <213> ORGANISM: Homo sapiens
188 <400> SEQUENCE: 13
189      Met Gln Gly Thr His Trp Pro Arg Thr
190          1              5
192 <210> SEQ ID NO: 14
193 <211> LENGTH: 7
194 <212> TYPE: PRT
195 <213> ORGANISM: Homo sapiens
196 <400> SEQUENCE: 14
197      Met Ala Leu Gln Thr Arg Thr
198          1              5
200 <210> SEQ ID NO: 15
201 <211> LENGTH: 7
202 <212> TYPE: PRT
203 <213> ORGANISM: Homo sapiens
204 <400> SEQUENCE: 15
205      His Ser Ser Ser Leu Arg Thr

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Input Set : N:\Cr4\08232004\J714079C.raw

Output Set: N:\CRF4\08262004\J714079B.raw

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206          1          5
208 <210> SEQ ID NO: 16
209 <211> LENGTH: 7
210 <212> TYPE: PRT
211 <213> ORGANISM: Homo sapiens
212 <400> SEQUENCE: 16
213      Gln Ala Asn Ser Phe Arg Thr
214          1          5
216 <210> SEQ ID NO: 17
217 <211> LENGTH: 7
218 <212> TYPE: PRT
219 <213> ORGANISM: Homo sapiens
220 <400> SEQUENCE: 17
221      Val Ala Ser Arg Leu Gln Ser
222          1          5
224 <210> SEQ ID NO: 18
225 <211> LENGTH: 18
226 <212> TYPE: DNA
227 <213> ORGANISM: Artificial Sequence
228 <220> FEATURE:
229 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic primer
230 <400> SEQUENCE: 18
231      gagtttgggc tgagctgg                                18
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234 <211> LENGTH: 21
235 <212> TYPE: DNA
236 <213> ORGANISM: Artificial Sequence
237 <220> FEATURE:
238 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic primer
239 <400> SEQUENCE: 19
240      ggaattctca caggagacga g                                21
242 <210> SEQ ID NO: 20
243 <211> LENGTH: 24
244 <212> TYPE: DNA
245 <213> ORGANISM: Artificial Sequence
246 <220> FEATURE:
247 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic primer
248 <400> SEQUENCE: 20
249      gahatygagc tcacbcagtc tcca                                24
251 <210> SEQ ID NO: 21
252 <211> LENGTH: 21
253 <212> TYPE: DNA
254 <213> ORGANISM: Artificial Sequence
255 <220> FEATURE:
256 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic primer
257 <400> SEQUENCE: 21
258      cctgttgaag ctctttgtga c                                21

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RAW SEQUENCE LISTING ERROR SUMMARY      DATE: 08/26/2004  
PATENT APPLICATION:    US/10/714,079B      TIME: 14:07:04

Input Set : N:\Crf4\08232004\J714079C.raw  
Output Set: N:\CRF4\08262004\J714079B.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:8; N Pos. 462,495,513

**VERIFICATION SUMMARY**

DATE: 08/26/2004

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TIME: 14:07:04

Input Set : N:\Crf4\08232004\J714079C.raw

Output Set: N:\CRF4\08262004\J714079B.raw

L:147 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:420  
L:148 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:480